User Manual: Fysio Project

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Introduction

Welcome to the **Fysio Project user manual**!

This manual will guide you through the process of using our application for **analysis** and **generate meaningful insights**.

This application offers an **efficient overview** for researchers, analysts, and professionals in the Dutch healthcare industry. The primary purpose of this tool is to enable users to **analyze the data** by leveraging advanced algorithms and natural language processing techniques.

This application allows users to upload the Dutch PDF Health Magazine and dive into the content of these magazines and uncover **clusters of complexity-related terms**. Additionally, users can explore the relationships between these terms and observe any changes that may have occurred over the years.

Benefits:

Time Efficiency: Analyzing volumes of the magazine manually can be a daunting and time-consuming task. The physio analyzer automates the process, significantly reducing the time and effort required to extract meaningful insights from the magazine data.

Data-driven Insights: With the application's powerful analysis capabilities, users can identify clusters of complexity-related terms and explore their relationships and patterns.

Topic Analysis: The application facilitates topic analysis by allowing users to compare and track changes and similarities in complexity-related terms over time and subjects. This feature provides valuable information for researchers and professionals interested in understanding trends and developments in the healthcare sector.

User-Friendly Interface: The fysio analyzer offers an intuitive and user-friendly interface, making it accessible to users with varying levels of technical expertise. The application's streamlined design ensures a smooth and hassle-free experience throughout the analysis process.

Gaining valuable insights that can drive innovation, inform research directions, and enhance decision-making in the dynamic field of healthcare, is our pride as a team of physio. We are glad to make a positive input which might make an improvement in future.

System Requirements

Before you begin, please ensure that your system meets the following requirements:

- **Operating System:** Windows, macOs, or Linux
- **Docker:** Recent version
- **Internet connection:** for downloading Docker application, Docker images and updates
- **Available storage:** 1GB

Installation

To install and set up the Fysio Project Application, follow these steps:

Step 1: Download Docker

- Visit the official Docker website at https://www.docker.com/
- Download the appropriate Docker version for your operating system.
- Install Docker by following the provided instructions.

Step 2: Download the Project Image:

- Open a terminal or command prompt.
- Run the following command to download the project image:

```
docker pull wattbreak/physio:clean
```

Wait for the download to complete. *It may take a few minutes depending on your internet connection.*

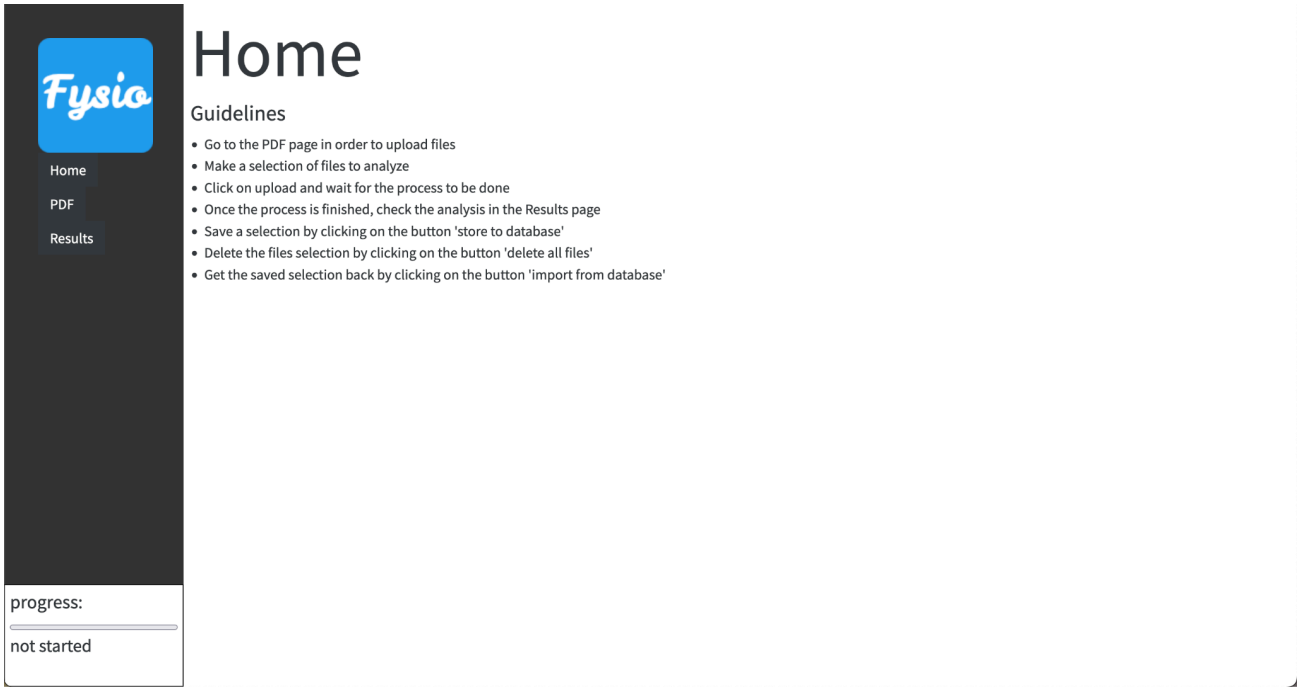
Step 3: Launch the Image

Run the following command to launch the application:

```
docker run -p 8050:8050 wattbreak/physio:clean
```

The application will start running. After a few seconds, open a browser and access the following website http://localhost:8050.

Home page:



Importing PDF Documents

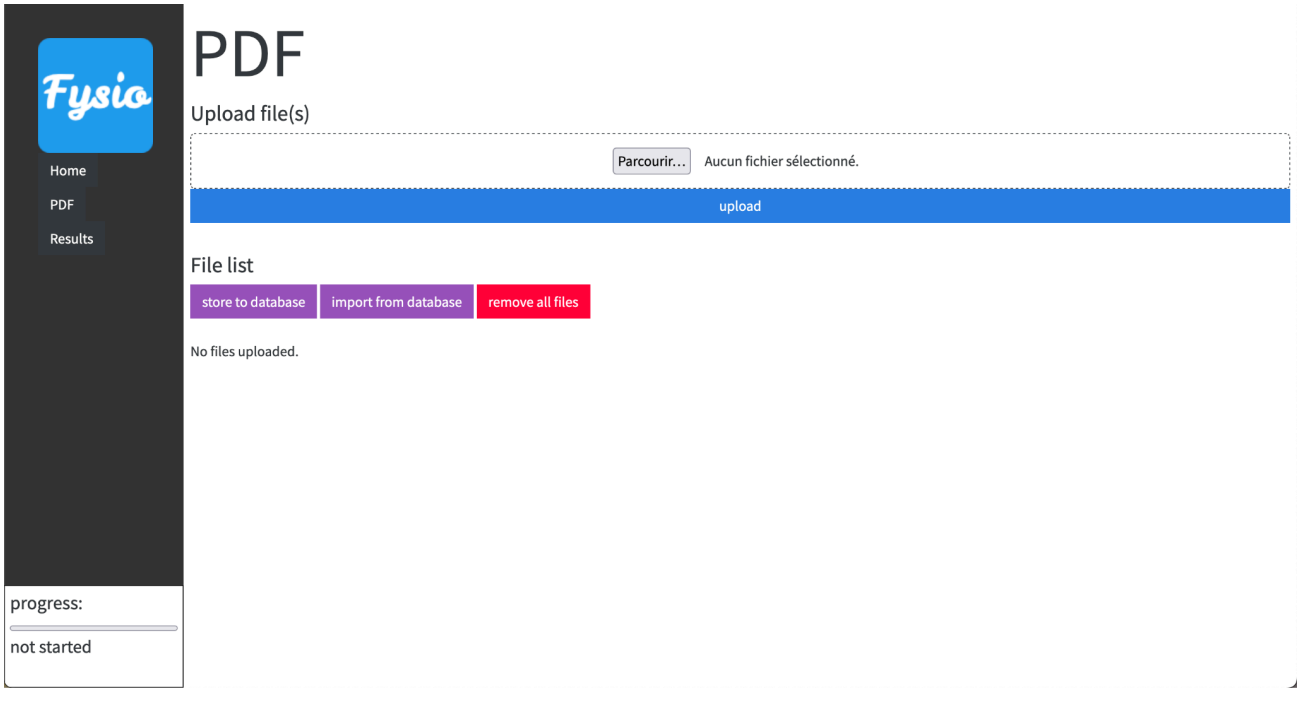
To import PDF documents for analysis, follow these steps:

Step 1: Locate your PDF files

Make sure the PDF files you want to analyze are initially stored on your local system or a connected storage device.

Step 2: Import the PDF files

PDF page:



In the **PDF** page, click on the browse button and select the files you want to import. You can upload as many files as you want. When you have made your files selection, you can click on the upload button. This action will start the analyzing process.

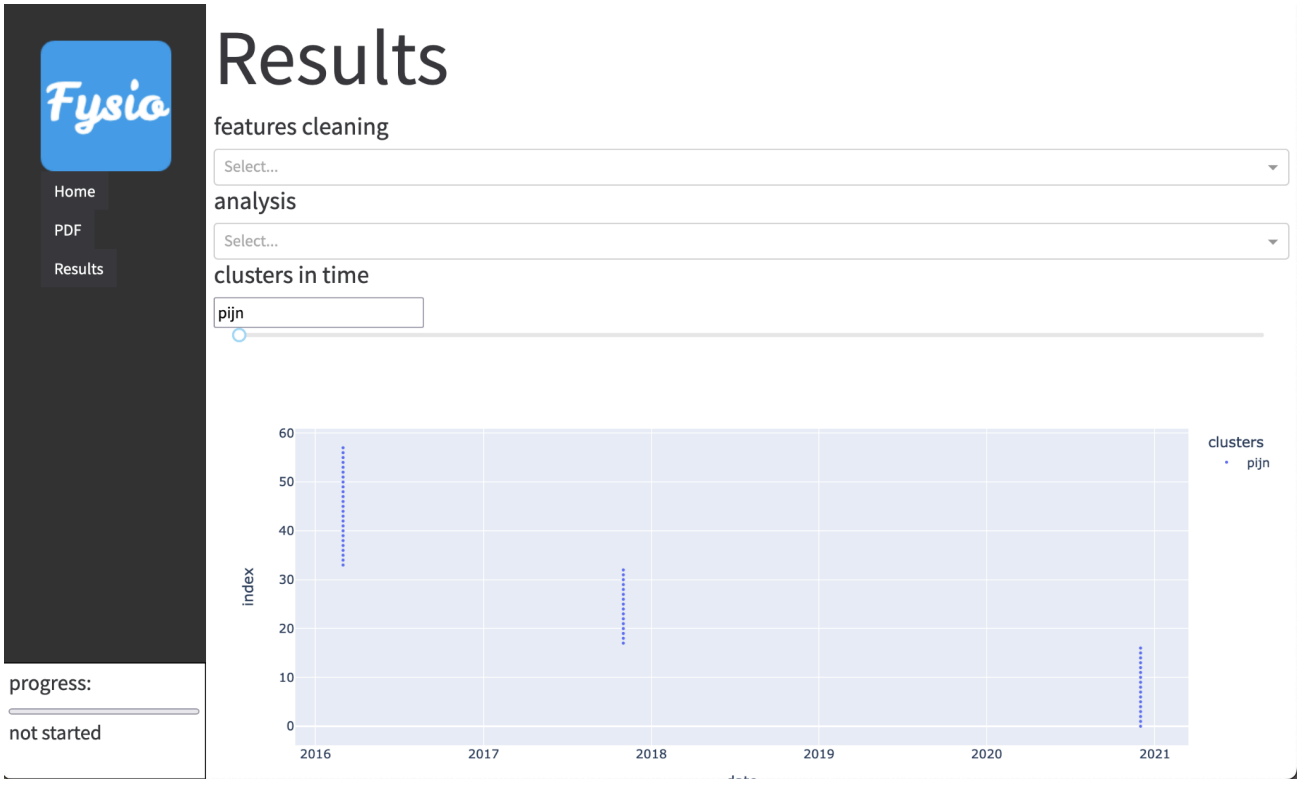
Analysis Process and Viewing Results

The tool will **automatically perform the analysis process**, including extracting and cleaning the files. *This may take some time, depending on the size and count of PDF files.*

Once the process is finished, you will need to go to the **visualization page** (Results page). In this page, you can see three different visualizations: a wordcloud, a pie chart and a scatter plot.

- In order to use the **wordcloud visualization**, you first need to click on the dropdown button and select a file to display. You can choose between a file named after a date showing the data selection of one magazine at the specified date, or to choose the file data_selection.png which shows the entire data selection.
- In order to use the **pie chart**, you first need to click on the dropdown button and select a file to display. You can choose between any file named after a date showing the topic analysis for the data selection of one magazine at a specified date.
- In order to use the **scatter plot**, you first need to insert a term in the text area. You can insert one or several terms as a list separated by commas. For instance: pijn,patint

Results page:



Troubleshooting

If you encounter any issues while using the PDF Analysis Tool, try the following steps:

- Ensure that Docker is properly installed and running.
- Check your internet connection to ensure a stable connection for downloading Docker images.
- Verify that you have provided the correct path to the PDF files during the import process.